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Assistant in Animal Husbandry	
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Instructor in Poultry Husbandry	
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Head of History Department, Central High School, Newark	
HARRY R. LEWIS, B.Sc.....	<i>Poultry Husbandry</i>
Associate Professor of Poultry Husbandry	

EXTENSION COURSES

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Professor of Agriculture	
JOHN H. LOGAN, A.M.....	<i>History</i>
Professor of History.	
WESLEY A. O'LEARY, A.B.....	<i>Education</i>
Director of Vocational Schools, Essex County, New Jersey	
GEORGE AUGUSTUS OSBORN, B.Sc.....	<i>Librarian</i>
Librarian	
ELIOT R. PAYSON, PH.D.....	<i>Education</i>
Professor of the History of Education	
FRANK RANDALL PRATT, M.Sc.....	<i>Physics</i>
Assistant Professor of Physics	
WILLIAM N. REGAN, A.M., Sc.D.....	<i>Dairying</i>
Professor of Dairy Husbandry	
LYMAN G. SCHERMERHORN, B.S.....	<i>Agriculture</i>
Instructor in Vegetable Gardening	
CHARLES H. WHITMAN, PH.D.....	<i>English</i>
Professor of English	

INTRODUCTORY

The courses in extension teaching which are outlined in the following pages are planned primarily for persons engaged in teaching. They may be utilized by such persons to complete work for a college degree in education while in regular teaching service. They may be utilized also by men and women who wish to obtain instruction of college grade but who are unable to be candidates for an academic degree. They may be pursued also by students who wish to take work in the regular college curriculum, but who are unable to elect courses upon the regular college program.

The courses include courses which may be offered for credit in Rutgers College and the State University of New Jersey, and some which may count toward the degree of Master of Arts. Most courses may be counted also for the various state certificates of New Jersey, providing the student has satisfied the prerequisite requirements.

Time of Meeting of Courses The courses listed will be offered late in the afternoon, in the evenings and on Saturdays in the various centers noted. In order to place the matter before the persons interested the schedule as printed has been tentatively arranged, but when the group which is to pursue any of the courses is determined, the time of meeting of the course will be arranged to suit the members of the class. Courses will be offered in centers other than those named, providing ten persons elect to pursue such a course. A larger number of courses is offered at New Brunswick than elsewhere and arrangements may be made to take as extension courses any of the courses upon the regular University schedule, providing the applicant is qualified to enter the course selected.

Registration Students who contemplate pursuing any of the courses listed in this bulletin should register upon the receipt of the bulletin by tearing out the registration blank, which constitutes the last page of this bulletin. This blank should be mailed at once to the Director of Extension Courses, State University of New Jersey, New Brunswick, New Jersey. All Saturday courses will begin their meetings on Saturday, September 29th. Other courses will begin the following week on the appointed days. Each course, unless otherwise specifically noted, will consist of thirty meetings, the length of the meeting being indicated in the bulletin. Students who pursue courses in New Brunswick should register in person in the Summer Session Office, Van Nest Hall, during the week September 24-29.

CREDITS

Candidates for the Bachelor's Degree

Students of Rutgers College and other colleges may, with the consent of the proper officer, pursue any of the courses offered and count the credit earned toward the appropriate degrees in Rutgers College under the conditions governing such credit. Students of other colleges should ascertain from the proper officer the amount of credit which will be allowed for the course chosen.

Credit for the Master's Degree

Certain courses listed in the bulletin may be pursued by students who are candidates for the Master's Degree. Such courses are marked with the designation indicated under Courses of Instruction.

Other Credits

Students in regular standing in other educational institutions of New Jersey may pursue courses for advanced standing or for the removal of deficiencies. Such students should ascertain from the proper officer of the institution in which they are enrolled the amount of credit which will be allowed for work completed in this manner.

Credit for State Teachers' Certificates

Courses outlined in this bulletin which are a part of the regular college curriculum may be counted for credit toward the various State Teachers' Certificates. In order to receive such credit, however, it is necessary that the student meet all of the prerequisite requirements laid down by the State Board of Examiners. These are fully described in a complete digest of rules governing all certificates, which will be sent upon request.

USE OF COLLEGE EQUIPMENT

The equipment in all Departments of Rutgers College and the State University of New Jersey is available for use in the extension classes held at New Brunswick. Laboratories of the departments of science and agriculture offering courses are exceptionally well furnished. Abundant library facilities are also afforded. The general college library contains 95,000 volumes, 33,000 pamphlets and receives 500 periodicals, including many pedagogical magazines. The Sage Library of the New Brunswick Theological Seminary adjoins the College Campus; it contains 53,000 volumes and 10,000 pamphlets, and permission for its use may be obtained.

APPOINTMENT BUREAU FOR TEACHERS

In order to be of service to the students who attend the summer session, to those enrolled in the regular college department of education and to those students who enroll in extension courses, a free appointment office is maintained in the office of the Director. The Appointment Committee desires to have all qualified teachers enroll at the earliest possible date.

ADMISSION

All extension courses are open on equal terms to such men and women as in the judgment of the faculty are qualified to pursue them. No formal examination for entrance to any of the courses is held. Students who wish to count the credit earned toward the appropriate academic degrees or for a State Teachers' Certificate must, as indicated above, satisfy the requirements laid down by the University or by the State Board of Examiners.

FEES

All persons who pursue any of the extension courses are required to pay a registration fee of \$2.00 and, in addition, the regular course fee named in the description. This course fee is based upon a charge of \$5.00 for each semester hour of credit which is earned by the course.

ATTENDANCE

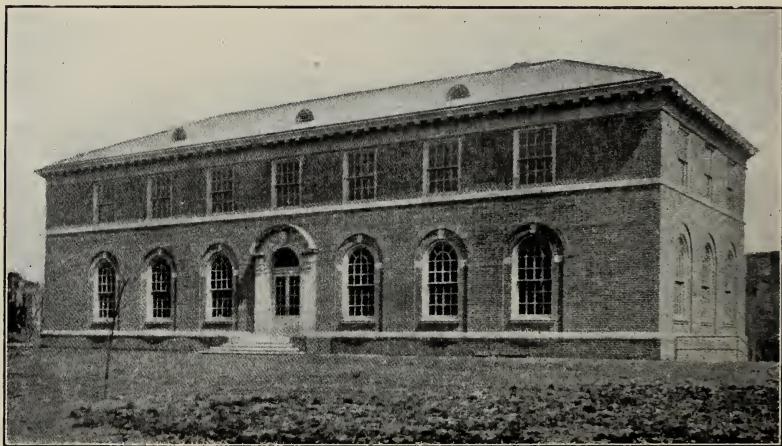
Students are required to be regular in their attendance. If a person expects to receive credit of any kind he may not be absent from more than 10 per cent of the recitations.

REGISTRATION BY MAIL

Students are urged to register for the various courses in advance of their opening. All correspondence and applications for courses should be addressed to the Director.

Prospective students are urged to make their arrangements upon the receipt of this bulletin. For further information, address

**DIRECTOR OF EXTENSION COURSES
STATE UNIVERSITY OF NEW JERSEY
NEW BRUNSWICK, N. J.**



Chemistry Building

COURSES OF INSTRUCTION

Credits

- All courses marked I— May be counted toward the appropriate degrees in Rutgers College and the State University of New Jersey.
- All courses marked II— May be offered graduate students for credit toward a master's degree.
- All courses marked III— May be counted for credit toward the various New Jersey State Certificates.

AGRICULTURE*

Elementary Agriculture for Teachers e1

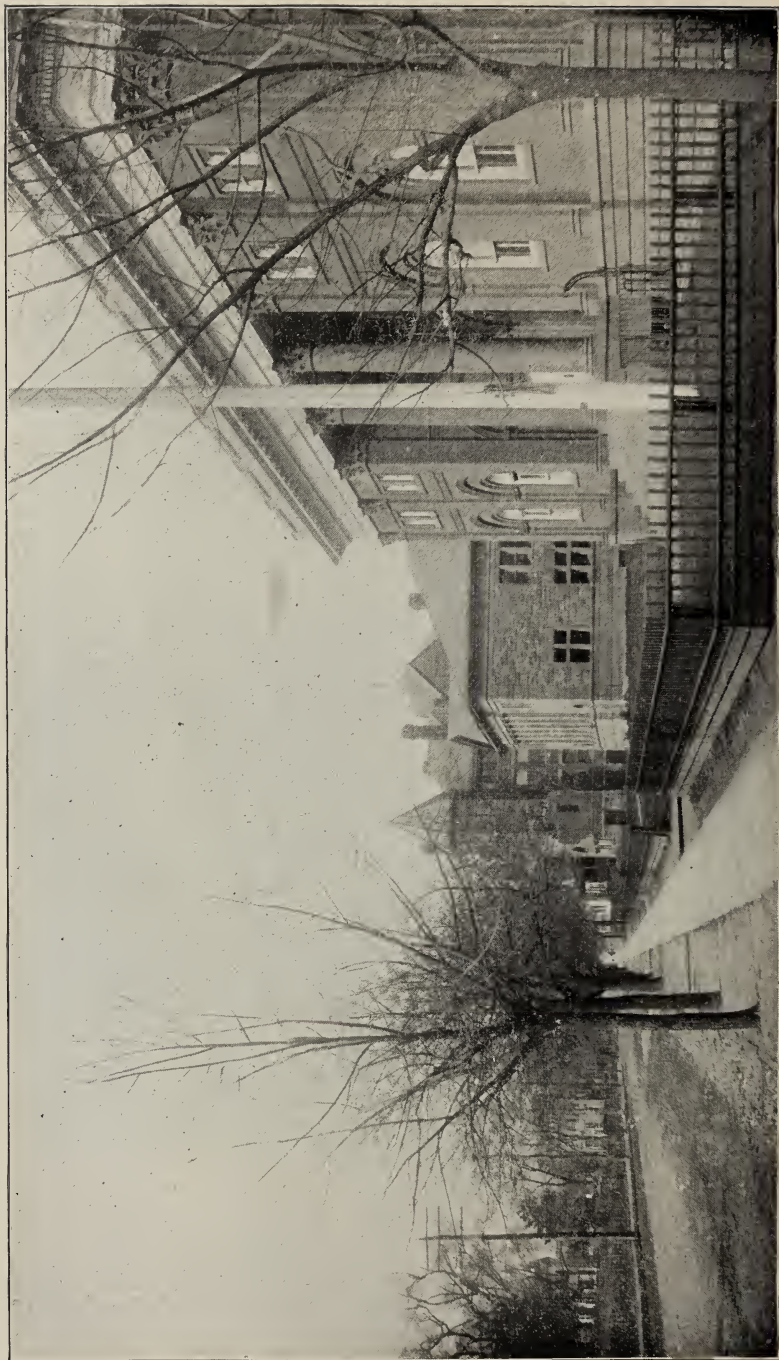
This is a general introductory course covering the fundamental principles of agriculture and is designed for those who have had no formal instruction in the subject. The work will cover such topics as soils, their formation, composition and fertility; field crops, such as wheat, corn, potatoes, alfalfa and other forage crops; vegetables—propagation and harvesting of the common garden vegetables; fruits—the propagation and harvesting of the common bush and tree fruits, plant diseases, insect pests and their control; poultry—the common breeds, housing, feeding and general management. Methods of instruction in agricultural subjects will be included and training will be given in the selection of products for exhibits in boys' and girls' competitive contests, in the use of score cards, and in comparative judging of corn, vegetables, fruits and poultry. Credit I, III, Professor App, 10-11.30 a. m., Saturday, New Jersey Hall, New Brunswick. Fee, \$15.

General Agriculture e3

A composite course covering the various phases of agriculture considered from both the theoretical and practical standpoints. It is designed to present the broader aspects of the subject rather than a purely technical or intensive study. The first lecture will serve as an introduction to the course by taking up a study of climatic and economic factors in food production and distribution. This will be followed by a series of lectures on the following subjects, the number of lectures being indicated after each topic: Soils (2); fertilizers and manures (1); farm crops (3); vegetable gardening (3); seeds (1); tree fruits (2); small and bush fruits (1); floriculture and landscape gardening (1); insects (3); plant diseases (2); animal husbandry (2); dairy husbandry (3); poultry husbandry (2); farm management (1); marketing (2). Credit I, III. Director Lipman, Professors Blake, Headlee, Cook, Lewis, Regan, App, Helyar, Mr. Schermerhorn and Mr. Hunter. 7.45-9.45 p. m. Tuesday, Central High School, Newark.

No regular fees are charged for this course. Persons electing the course pay only a nominal registration fee of \$1.00.

*Additional courses in Agriculture may be elected from the group known as Short Courses in Agriculture during a twelve-week period, beginning November 19. A bulletin describing these courses will be sent upon request.



New Jersey Hall, Library, Ballantine Gymnasium

Poultry Husbandry e2

Poultry farming in all its branches, including lectures on the following topics: Types and breeds of poultry; breeding for egg production; the principles and practices of poultry feeding; location, design and construction of poultry buildings; incubation and brooding; marketing poultry products; sanitation and diseases of poultry. Laboratory periods will be devoted to scoring and judging, caponizing, sticking and dry picking, grading eggs for market, operation of incubators and brooders and feeding practices. Lectures, demonstrations and laboratory exercises.

Credit I, III. Equivalent to Poultry Husbandry 488. Mr. IRVIN.

11 a. m.-12.30 p. m., Saturday, Poultry Building, College Farm, New Brunswick. Fee \$15.

BOTANY**General Botany for Teachers—Course I e40**

A course in elementary plant morphology, physiology and ecology. Especial attention is given to the needs of school work and the topics selected for study together with the laboratory exercises are such as may be readily utilized in such work. Among the most important topics treated will be germination, environmental factors, pollination, seed distribution, identification of common plants, and plant societies.

Credit I, III. Lectures and laboratory exercises. Professor HELYAR.

11.30 a. m.-1 p. m., Saturday, Botanical Laboratory, New Jersey Hall, New Brunswick. Fee \$15.

CHEMISTRY**General Chemistry for Teachers e50**

An elementary study of the non-metals and their compounds together with the fundamental chemical laws and theories. No previous knowledge of chemistry required.

Credit I, III. PROFESSOR BARNEBEY.

10-12 a. m., Saturday, Chemistry Building, New Brunswick. Fee \$20.

COMMERCIAL SUBJECTS

The rapid development of the commercial interests of New Jersey has increased in great measure the demand for trained workers. A very large number of pupils is now found in the commercial departments of our high schools and in private business colleges. These facts account for the present large demand for trained commercial teachers.

The high schools of New Jersey now require that commercial teachers have a preparation equal to that of the teachers of other high school subjects and in addition a superior technical training in their special field. The courses offered are open to both men and women and are planned particularly for prospective teachers of commercial subjects who are graduates of normal schools or high schools. A number of the courses will prove of value to commercial teachers in service, and they may be elected with profit also by teachers who wish to qualify for teacher-clerk and special city licenses or by persons who are preparing for some form of secretarial work.

Methods and Curricula of Commercial Education e100

This course will present and discuss those methods which have been found most successful in teaching the commercial subjects. Modern methods in presenting the work in office practice and accounting will be discussed and the application of the work to different types of schools will receive attention. The most approved methods of teaching stenography and typewriting will receive attention. Methods of handling the most serviceable office equipment such as the duplicator, the multigraph, the dictaphone, adding machine, addressograph and filing devices will be taught.

Credit III. Mr. EVANS.

10-11.30 a. m., Saturday, Queen's Building, New Brunswick. Fee \$15.

Bookkeeping I—Preparatory Accounting e101

This course presupposes no knowledge of bookkeeping. The purpose of the course is to give the student a working knowledge of modern bookkeeping practice. The course provides practice in the preparation of original entries, posting, the making of statements and ledger closing.

Credit III. Mr. EVANS.

11:30 a. m.-1 p. m., Saturday, Queen's Building, New Brunswick. Fee \$15.

Bookkeeping II—Principles of Accounting e102

This course considers principally corporation accounting. The course includes the carrying through of a complete series of transactions. The plan is to equip the student who completes this course and Bookkeeping I with a knowledge of the fundamental principles of accounting and their application to various types of business.

Credit III. Mr. EVANS.

11:30 a. m.-1 p. m., Saturday, Queen's Building, New Brunswick. Fee \$15.

Elementary Stenography (Gregg System) e103

This course is planned to furnish the student with an elementary knowledge of shorthand and provides practice from dictation.

Credit III. Mr. EVANS.

7-8.30 p. m., Monday and Wednesday, Queen's Building, New Brunswick. Fee \$25.

Advanced Stenography (Gregg System) e104

This course is offered to meet the needs of students who desire advanced instruction in shorthand, and for teachers who desire to obtain additional speed.

Credit III. Mr. EVANS.

8:30-9 p. m., Monday and Wednesday, Queen's Building, New Brunswick. Fee \$25.

Elementary Typewriting e105

This course is planned to give the student a mastery of the touch system. In order to obtain the maximum benefit from this course students should avail themselves of the extra hours of practice.

Credit III.

7-8:30 p. m., Tuesday and Thursday, Queen's Building, New Brunswick. Fee \$25.

Advanced Typewriting e106

This course is planned to give students and teachers an opportunity to increase their speed and to gain experience in various classes of work.

Credit III.

8:30-10 p. m., Tuesday and Thursday, Queen's Building, New Brunswick. Fee \$20.

Elementary Stenotypy e107

This course will equip those who take it with an elementary knowledge of the system. The principles of stenotypy and the operation of the machine will be treated in detail and abundant practice will be provided.

Credit III.

8-10 p. m., Monday and Wednesday, Queen's Building, New Brunswick. Fee \$30.

DRAWING**Advanced Course for Teachers and Supervisors e64**

This course is designed to instruct advanced students in the methods of presentation, the principles of criticism, the technique of different media and the preparing of classroom outlines of work which are suited to the various grades of the elementary school and the junior high school. The course includes a study of the work of the supervisor of drawing. A comprehensive bibliography is supplied. Lectures, discussions, assigned readings and practical work.

Credit III. Mr. FROELICH.

10-11:30 a. m., Saturday, Newark. Fee \$15.

EDUCATION**History of Education—Course A e70**

This course is intended to introduce the student to the subject and to carry him through the Renaissance and Reformation period. It will consider the influence of the great philosophers upon educational thought, the manner in which the civilizations of the past have expressed themselves in educational institutions, and the lessons which we may draw from such a study for our own guidance. Lectures, recitations, and written reports.

Credit I, III. Equivalent to History of Education 30. Professor PAYSON.

9-10:15 a. m., Saturday, Queen's Room 35, New Brunswick. Fee \$12.

Psychology of Learning e33

This course includes a study of the psychology of habit, practice, memory, fatigue and thinking in their relation to school work. A survey of the literature is made as far as the time permits.

Credit I, III. Equivalent to Psychology 33. Professor ELLIOTT.

10-11:30 a. m., Saturday, Room 12, Van Nest Hall, New Brunswick. Fee \$15. 8-9:30 p. m., Thursday, Camden.

Educational Measurements e39

This course deals with the measurement of achievements in the various school subjects, the determination of units and scales together with training in their use. Methods of gathering and studying data and the elementary mathematics of statistics are included. The course includes also a study of recent school surveys.

Credit I, II, III. Equivalent to Education

11:30 a. m.-1 p. m., Saturday, Room 12, Van Nest Hall. Fee \$15.

Supervision of Instruction with Special Reference to the Curriculum e35

This course is intended for principals and supervisors. Modern points of view in elementary education will be considered. Among the topics which receive detailed treatment are: The making of a curriculum, the judging of instruction, principles of instruction, methods of study. The course may be taken with profit also by teachers of experience.

Credit I, III.

10-11:30 a. m., Saturday, Newark. Fee \$15.

Methods of Teaching in Industrial Schools e37

This course is planned especially for two groups: (a) Men who have had satisfactory industrial experience and who are at present teaching in industrial schools, (b) men with satisfactory industrial experience who wish to become teachers in these schools. The main purpose of this course is to study specific teaching problems that arise in industrial schools for boys and men and to give instruction in the application of those methods and principles of teaching that have been found useful in industrial school work. The course includes the following topics: Learning; planning of lessons; lesson types; the adaptation of lessons to shop and classroom teaching in the industrial school; the organization of shop work in accordance with good teaching practice; the project, the exercise and the factory method of handling shop work. The course includes also the study of the content of the various trades and topics in the teaching process and class management. Lectures, readings, discussions and visits to vocational schools.

Credit III. Director O'LEARY.

7:30-9:30 p. m., Wednesday, Boys' Industrial School, Warren and Wycliffe Streets, Newark. Fee \$20.

ENGLISH**Literature for the Grades—Course B e123**

This is a course in the theory and practice of teaching English in the upper grammar grades and the junior high school. The course will examine the aims in teaching reading and literature in grades VII and VIII and in the junior high school. The criteria for the selection of

classics, the methods of teaching them, a consideration of literary types and class study of selected literature will form an important part of the course. Among the selections which constitute the types studied are the following: Sohrab and Rustum—Arnold; Lady of the Lake—Scott; Enoch Arden and selected Poems—Tennyson; Evangeline and selected Poems—Longfellow; Snowbound and selected Poems—Whittier; Homer's Iliad and Odyssey—Bryant translation; selected Poems—Wordsworth; The Great Stone Face—Hawthorne; Legend of Sleepy Hollow—Iring; Treasure Island—Stevenson; Julius Cæsar—Shakespeare; Vision of Sir Launfal—Lowell.

Credit I, III. Equivalent to English 155. Professor WHITMAN.

10-11:30 a. m., Saturday, New Brunswick. 8-9:30 p. m., Wednesday, Newark. Fee \$15.

Nineteenth Century Prose and Poetry e124

Prominent English authors of the nineteenth century including Wordsworth, Coleridge, Byron, Shelley, Keats, Browning, Tennyson, Ruskin, Carlyle and Arnold, together with some consideration of contemporary tendencies.

Credit I, III. Equivalent to 2 of the 3 hours of English 166. Professor WHITMAN.

8-9:30, Monday, New Brunswick. 8-9:30 p. m., Tuesday, Jersey City. Fee \$15.

FRENCH

French Conversation e133

To profit fully by this course the student should possess a fair vocabulary with knowledge of the essentials of French grammar. The chief object of the instruction is to train the ear in understanding and the tongue in speaking the language. The work is conducted almost exclusively in French and consists of continual dialogue between teacher and pupils on everyday subjects together with exercises in dictation and in composition. The course aims to give little theory and explanation but as much practice as possible in the use of French.

Credit I, III. Equivalent to one semester of College French. Professor BILLETDOUX.

4-5:30 p. m., Wednesday, New Brunswick. Fee \$15.

GERMAN

German—Course C: German Literature e152

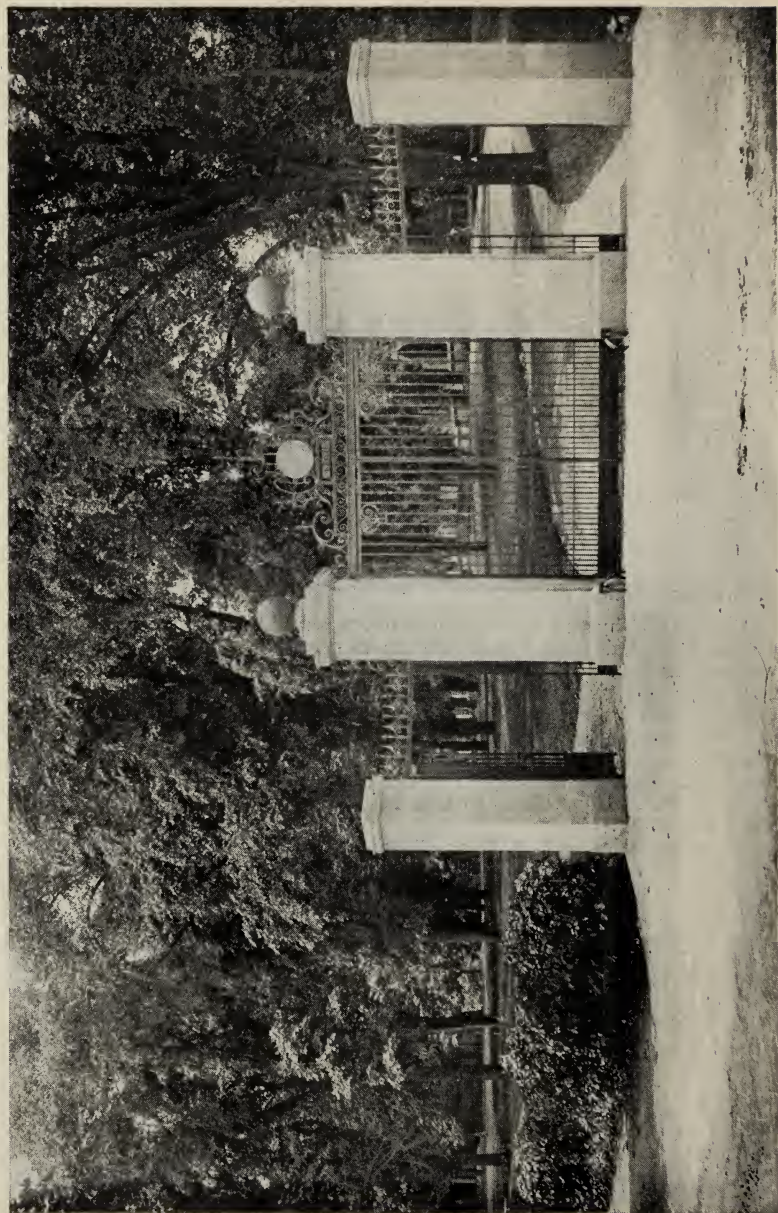
This course will consist of the study of German classics selected from the following list: Lessing: Nathan der Weise; Goethe: Guetz von Berlichingen, Egmont; Schiller: Kabale und Liebe, Maria Stuart, Die Braut von Messina. Literary and historical discussion of the texts will be carried on in German as far as possible and the course will include practice in German composition based on the content of the texts read.

Credit I, III. Equivalent to German 210. Professor HAUCH.

7:30-8:30 p. m., Wednesday, New Brunswick. 7:30-8:30 p. m., Tuesday, Jersey City. Fee \$12.

The Teaching of Modern Languages in the High School e154

This course is intended for teachers of both French and German and will deal with the general principles underlying the teaching of modern



Queen's Campus
1883 Gateway

languages, the organization of German and French instruction in the secondary schools of the United States with detailed treatment of methods of instruction in these languages. It will include treatment of the history of the direct method in Europe and the United States, its theory and practice, its special application to various needs and conditions, and its demands upon the teacher. Detailed suggestions will be given as to its application in the treatment of pronunciation, grammar, written work and reading material. The work consists of lectures, discussions and reports upon textbooks and other references.

Credit I, III. Professor HAUCH.

8:30-9:30 p. m., Wednesday, New Brunswick. 8:30-9:30 p. m., Tuesday, Jersey City. Fee \$12.

HISTORY

Two general outline courses are offered in European History. Some knowledge of the entire field of European History is presupposed. The work consists of oral and written recitations covering the work of the textbook, regular use of the library, with lectures and exercises on methods of teaching history.

General History—Course A: History of Greece and Rome e160

The history of Greece and Rome is followed by an introduction to the middle ages. Among the topics considered are: Political and social history of Greece and Rome, colonial enterprises of the Ancients, rise of Christianity, German invasions, mission activities of the early Church, beginnings of feudalism, foundation of modern states and Charlemagne's Empire.

Credit I, III. Professor LOGAN.

10-11:30 a. m., Saturday, Room 11, Van Nest Hall, New Brunswick. Fee \$15.

General History—Course B e161

This is a continuation of Course A. Among the principal topics are the following: Feudal system, culture of Middle Ages, renaissance and reform, era of revolutions, main points in the progress of the nineteenth century.

Credit I, III. Professor LOGAN.

11:30 a. m.-1 p. m., Saturday, Room 11, Van Nest Hall, New Brunswick. Fee \$15.

Advanced United States History—Course B e165

This course is an outline course of the field of American History with special emphasis upon recent social and economic movements.

Credit I, III. Equivalent to 2 hours of History 54. Professor LOGAN.

8-9:30 p. m., Thursday, Room 11, Van Nest Hall, New Brunswick. Fee \$15.

Methods of Teaching History in the High School e167

This is a course in the theory and practice of teaching history in the high school. It includes a study of European and American secondary history programs, methods of teaching and special consideration of

various aids to history teaching. Particular attention will be given to those phases of history teaching which seem best adapted to American conditions. Study will be made of courses for the four-year high school, six-year high school, and the junior high school.

Credit I, II, III. Dr. KNOWLTON.

10-11:30 a. m., Saturday, Central High School, Newark. Fee \$15.

MATHEMATICS

Applied Mathematics and Mechanics e245

This course is a course in shop mathematics for men engaged in practical shop work and includes the elements of the fundamental mathematical subjects and mechanics. Thirty meetings of two hours each. College credit as arranged.

Credit I. Professor COUCH.

7:30-9 p. m., Monday, Engineering Building, New Brunswick. Fee \$20.

Mechanical Drawing and Elementary Graphics e110

This course consists of the study of projections and the graphical determination of forces and movements. Thirty meetings of three hours each.

Credit I. Equivalent to Drafting 381 or 382. Professor HECK.

2-5 p. m., Wednesday, M. E. Drafting Room, Engineering Building. New Brunswick. Fee \$20.

PHYSICS

Elementary Physics—Course I e270

This course consists of lectures, recitations and individual laboratory work covering the usual topics in mechanics and heat. The course is designed for teachers who wish to meet State Certificate requirements. It may be taken with profit by high school teachers of physics who desire to review the subject and study methods of presentation. By special arrangement credit may be earned for 90 hours of Elementary Physics.

Credit I, III.

11 a. m.-1 p. m., Saturday, Geological Hall, New Brunswick. Fee \$20.

SPANISH

Beginner's Spanish e330

This course, equivalent to the first semester of college Spanish, is designed for students that have had no training in the subject. Careful study of pronunciation with constant drill exercises; thorough grounding in the essentials of the grammar, including the verb system; copious translation of graded sentences from Spanish into English and vice versa; reading of a few easy stories and anecdotes. The aim of the instruction is to give a solid foundation for further study.

Credit I, III. Equivalent to Spanish 195. Professor BILLETDOUX.

8-9:30 p. m., Tuesday, New Brunswick. Fee \$15.

ZOOLOGY

General Zoology e350

An elementary course including the study of the anatomy of selected types of animals, with special emphasis on their economic importance. Methods of caring for aquaria and vivaria and of collecting material for class use will be discussed in connection with the study of the specimens.

Credit I, III. Equivalent to General Zoology 541. Professor CHIDESTER.

10-11:30 a. m., Saturday, New Brunswick. Fee \$15.



Queen's Campus, North

RUTGERS COLLEGE
and
STATE UNIVERSITY OF NEW JERSEY
Extension Courses 1917-1918

APPLICATION FOR REGISTRATION

Mail this sheet to the Director of Extension Courses as early as possible. Kindly give names of all persons that are interested in Extension Courses.

Name (Mr., Miss, Mrs.).....

Street Address

Post Office Address.....State

Highest Educational Institution previously attended.....

Credit desired to count toward.....

I desire to enroll in the following courses:

(Write the titles and numbers of the courses selected below)

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Please send copy of this bulletin to the following persons:

Name

Address

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